

Vector-Borne Diseases Surveillance Bulletin # 33

Arbovirus Surveillance - Week 51

Friday, December 20, 2002

Suspect Human cases of Meningitis/Encephalitis				Suspect Equine Viral Encephalitis		Mosquito pools tested for virus (final results) *					Chicken Sera tested for antibody *			
Time Period	Number tested		Number Positive		Number Tested	Number Positive	Total Number	WEE Positive	SLE Positive	Other Positive	Total Positive	Total Number	WEE Pos.	SLE Pos.
	WEE	/SLE	WEE	/SLE										
Week	14	/ 14	0	/ 0	0	0	0	0	0	0	0	275	0	0
YTD	431	/ 431	0	/ 0	55	1	4869	27	8	1	36	24381	52	45

THIS IS THE LAST ARBOVIRUS SURVEILLANCE BULLETIN FOR 2002. THE FIRST SURVEILLANCE BULLETIN FOR 2003 IS SCHEDULED FOR APRIL.

HUMAN CASES OF WEST NILE ENCEPHALITIS/ASEPTIC MENINGITIS

No new cases in December.

Acquired in California = 1 (Los Angeles County)

Imported into California = 6

WN encephalitis: Texas resident in Los Angeles County

WN encephalitis: India resident traveled to Wisconsin

WN meningitis: Orange County individual traveled to Nebraska

WN Fever: San Francisco County individual traveled to Washington, D.C.

WN Fever: Ventura County resident traveled to Florida

WN associated Acute Flaccid Paralysis: Kansas resident traveled to Los Angeles

DHS/VRDL California Encephalitis Project Update. In 2002, testing was expanded from just Encephalitis cases to include Aseptic Meningitis and Accute Flaccid Paralysis/Atypical Guillain-Barre Syndrome.

In 2002:

431 human cases tested

251 Encephalitis cases (January-December)

132 Aseptic Meningitis cases (July - December)

11 Accute Flaccid Paralysis/Atypical Guillain-Barre (July - December)

37 Febrile illness

EQUINE CASES OF WEST NILE VIRUS

Acquired in California = 0

Imported into California = 1 (from Nebraska)

CHICKEN SEROCONVERSIONS THIS WEEK: SLE = 0, WEE = 0

YTD: SLE = 45, WEE = 52, WNV = 0

Fifty-one agencies maintained a total of 207 sentinel chicken flocks in California.

Chicken seroconversions for 2002: SLE = 45 [Imperial County = 43 (6 flocks),

Riverside County = 2 (2 flocks)]

WEE = 52 [Imperial County = 40 (7 flocks),

Riverside County = 8 (2 flocks),

San Bernardino County = 4 (1 flock)]

WN = 0

Totals on negative results received this year from local agencies on testing their sentinel flocks:

Greater Los Angeles VCD = 400 (GRLA began sending their samples to VRDL in August)

Sacramento-Yolo MVCD = 1,406

San Gabriel Valley MVCD = 1,268

POSITIVE MOSQUITO POOLS THIS WEEK: SLE = 0, WEE = 0, Bunyavirus = 0

YTD: SLE = 8, WEE = 27, WNV = 0, Bunyavirus = 1

Thirty-two agencies in California submitted mosquito pools for testing in 2002.

Number of pools with viral isolations: WEE = 27 (Imperial and Riverside Counties), Bunyaviridae = 1 (Riverside County), SLE = 8 (Imperial County), DEN = 0, JBE = 0, WN = 0

DEAD BIRD SURVEILLANCE. There were 3,629 dead birds (756 crows, 416 sparrows, 415 jays, 157 finches, 155 magpies, 69 hawks, 51 owls, 50 ravens, 101 blackbirds, 1 eagle, 4 falcons, 2 harriers, 2 kestrels, 2 kites, and 1,448 other) reported to DHS in 2002 from 56 counties. 679 (222 crows, 119 sparrows, 96 jays, 45 finches, 38 magpies, 30 hawks, 22 owls, 18 ravens, 15 blackbirds, 1 eagle, 2 falcons, 2 harriers, 2 kestrels, 2 kites, and 65 other) birds were tested for WN and all were negative.

The lists below are a summary of dead birds reported to DHS for WNV testing for Week 49 (December 1 – 7, 2002), Week 50 (December 8 – 14, 2002), and Week 51 (December 15 – 21, 2002). The number in parenthesis represents those actually submitted for testing.

Week 49

Alameda: crow, 1; unknown, 1 – Contra Costa: brewer's blackbird, 1; hawk, 1; starling, 1 – Fresno: unknown, 4 – Humboldt: crow, 3 – Lake: unknown, 1 – Marin: crow, 7 – Orange: crow, 2 – Riverside: crow, 1; dove, 1; jay, 1 – Sacramento: crow, 1 (1); magpie, 1 (1); pigeon, 3 – San Diego: purple roller bird, 1; unknown, 1 – San Luis Obispo: robin, 1; sparrow, 2 – San Mateo: unknown, 1 – Santa Barbara: sparrow, 3 – Solano: great horned owl, 1 – Tehama: blue heron, 1 – Tulare: falcon, 1 – Yolo: hawk, 1
Weekly Totals: 43 Reported (2 Tested)

Week 50

Contra Costa: red tailed hawk, 1 – Napa: red tailed hawk, 1 – Sacramento: crow, 2 (2); unknown, 2 – San Diego: sharp shinned hawk, 1 (1) – San Francisco: barn owl, 1 – Santa Barbara: crow, 1 – Santa Clara: chicken, 1; finch, 1 (1) – Stanislaus: crow, 1 – Ventura: duck, 1 – Yolo: crow, 1; burrowing owl, 1 (1); hawk, 1 (1); scrub jay, 1 (1)
Weekly Totals: 17 Reported (7 Tested)

Week 51

Placer: unknown, 1 – Sacramento: crow, 1; unknown, 1 – San Diego: sparrow, 1 (1) – Sutter: blackbird, 1 – Yolo: red tailed hawk, 1 (1) – Yuba: pigeon, 1
Weekly Totals: 7 Reported (2 Tested)
Year to Date Totals: 3,629 Reported (679 Tested)

CALIFORNIA WEBSITE FOR WEST NILE VIRUS: <http://www.westnile.ca.gov>

In addition to information on WNV and the California program, this website maintains a weekly updated map of states with WNV activity in 2002 indicating the number of human cases by state.

Go to the California Vector Website for updated maps of flock sites, test results, and other vector-borne disease information. <http://vector.ucdavis.edu/surveillance/default.html>

{Dried blood spot specimens from sentinel chickens are submitted each week to the DHS Viral and Rickettsial Disease Laboratory (VRDL) and tested for the presence of antibodies to western equine encephalomyelitis (WEE) and St. Louis encephalitis (SLE) viruses by EIA and IFA. The test for SLE detects antibody to other viruses in the Flavivirus group including West Nile virus (WNV). The VRDL forwards serum specimens from sentinel chicken in which SLE antibodies are detected to the Davis Arbovirus Research Unit (DARU) for additional testing for WNV antibodies by a different ELISA and plaque reduction neutralization test (PRNT). DARU also conducts viral cultures for WEE and SLE on all submitted mosquitoes. All mosquito pools in which SLE is detected are subsequently tested for WNV. Additional viral testing may include RT-PCR of mosquito pools for California encephalitis virus, dengue, and Japanese B encephalitis as appropriate.}

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Chicken sera received and tested this week:

County	State	ACODE	Total Flocks	Date Bled	Date Received	Total Chickens
IMPERIAL	CA	IMPR	5	29-Apr-02	17-Dec-02	40
LOS ANGELES	CA	GRLA	4	04-Dec-02	13-Dec-02	38
LOS ANGELES	CA	LACW	10	03-Dec-02	13-Dec-02	43
MONTEREY	CA	NSAL	1	13-Dec-02	17-Dec-02	10
RIVERSIDE	CA	COAV	1	10-Dec-02	17-Dec-02	10
RIVERSIDE	CA	RIVR	1	01-May-02	06-Dec-02	14
SAN BERNARDINO	CA	SANB	7	09-Dec-02	13-Dec-02	60
SAN BERNARDINO	CA	WVAL	3	10-Dec-02	13-Dec-02	19
SAN DIEGO	CA	SAND	2	09-Dec-02	16-Dec-02	20
SANTA BARBARA	CA	SBCO	3	29-Apr-02	13-Dec-02	27

Mosquito pools received this week:

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